TOSHIBA 98TS0756

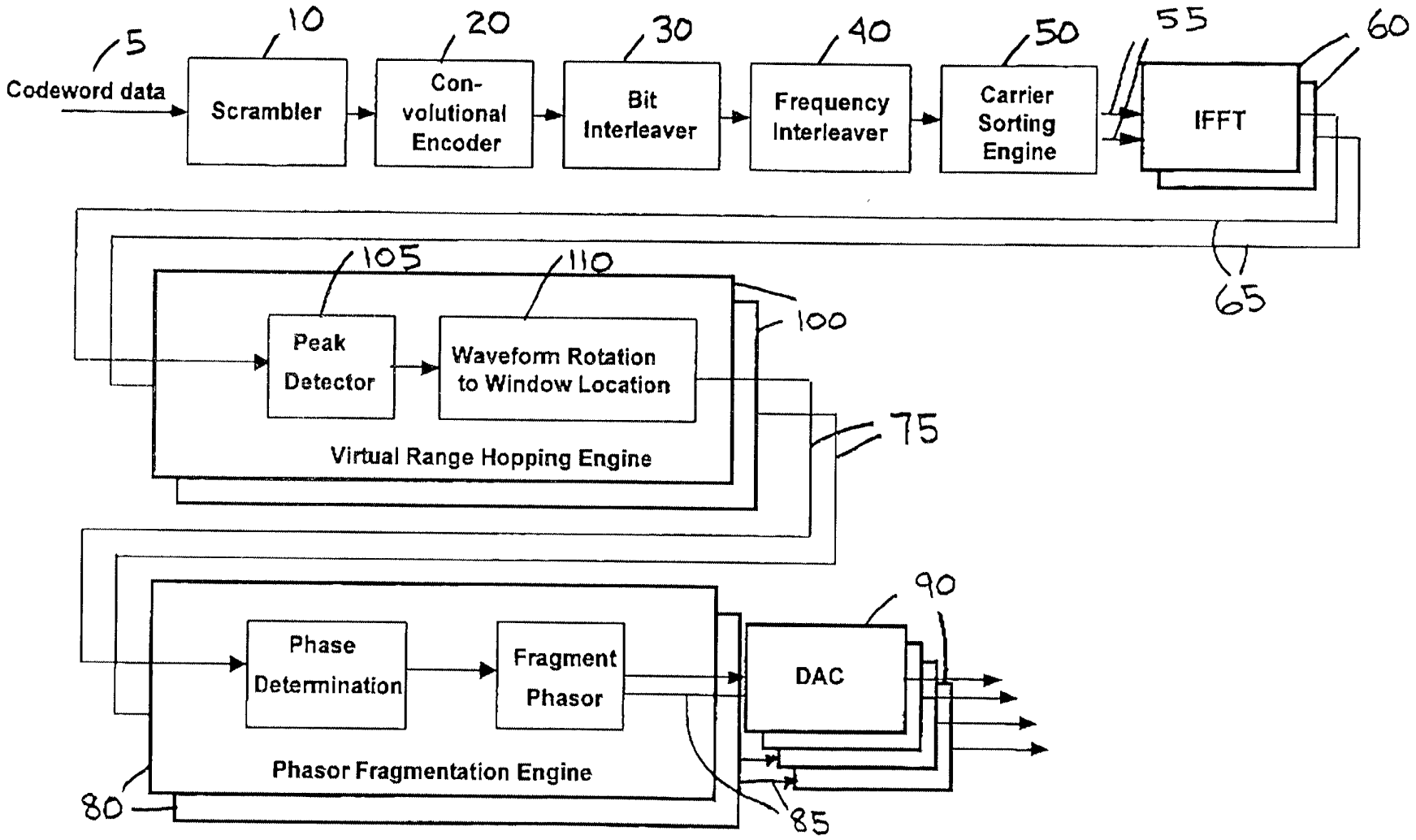


Figure 1(a)

Toshiba Corporation

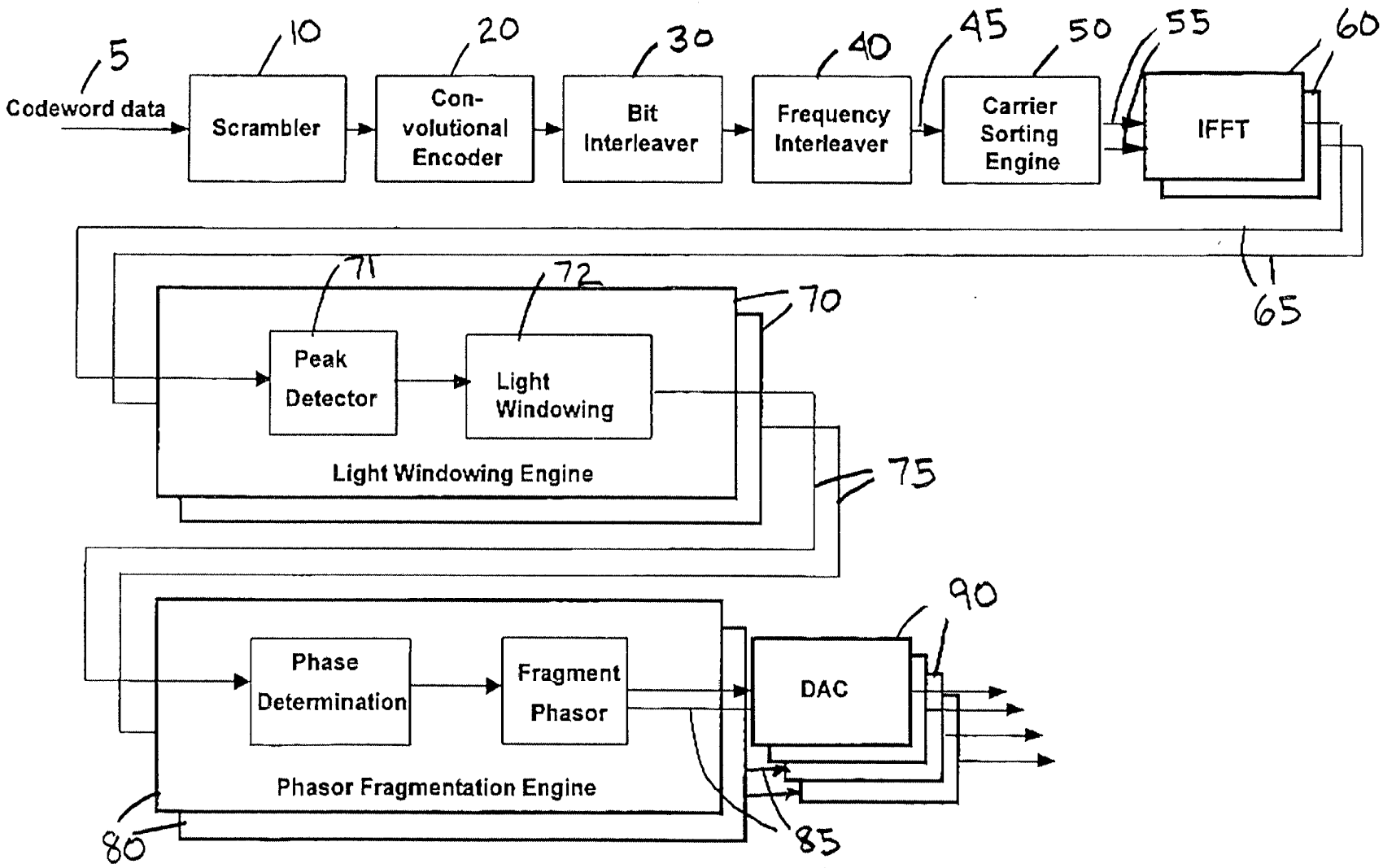
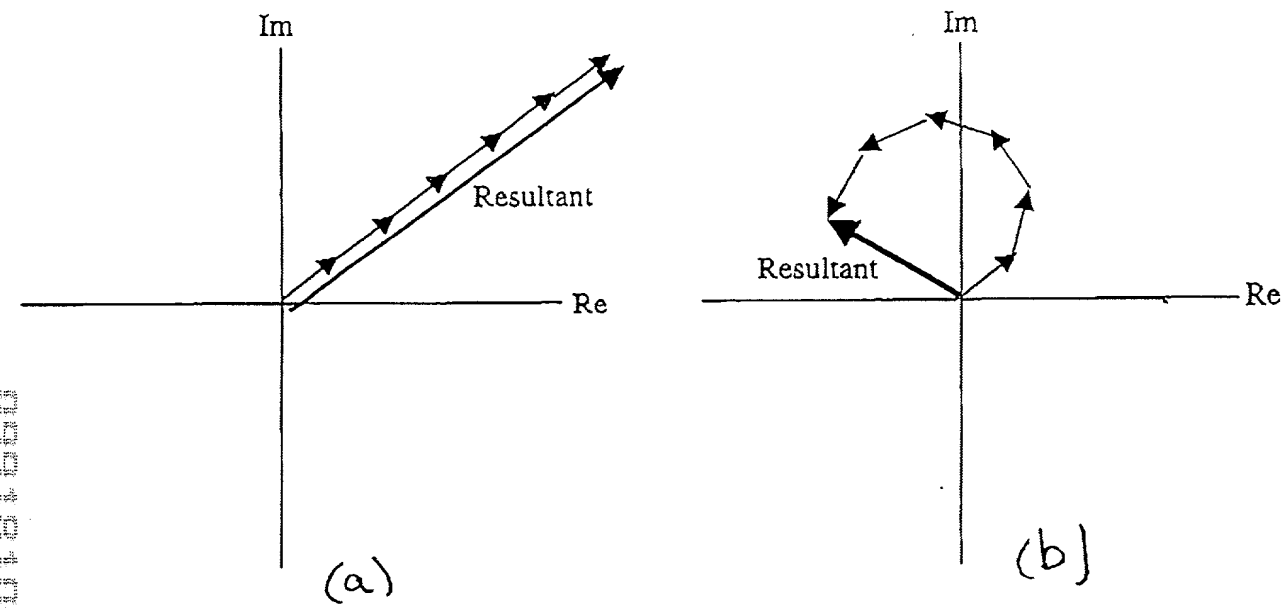


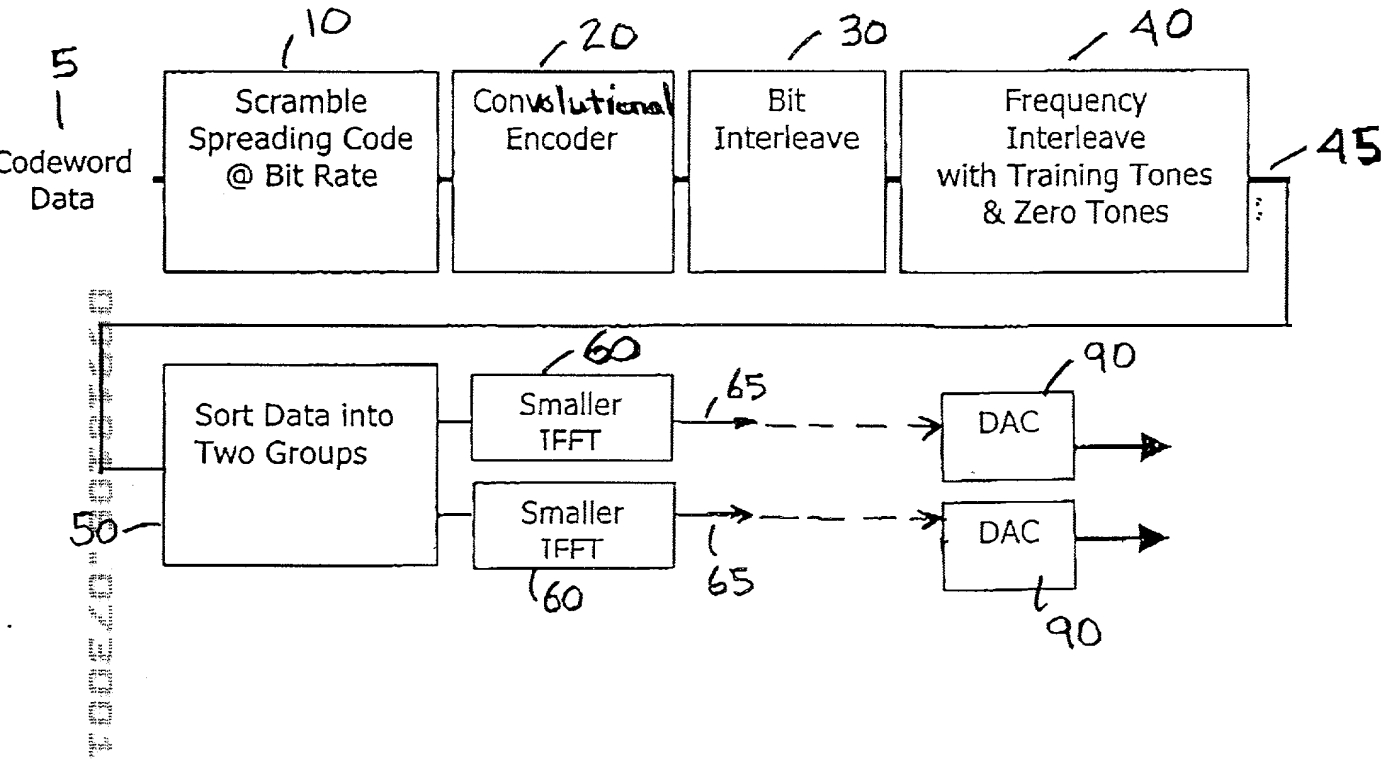
Figure 1(b)

Figure 2



Peak-to-Average Ratio

Figure 3


5
Codeword Data
10
Scramble Spreading Code @ Bit Rate
20
Convolutional Encoder
30
Bit Interleave
40
Frequency Interleave with Training Tones & Zero Tones
45
50
Sort Data into Two Groups
60
Smaller IFFT
Smaller IFFT
65
65
90
DAC
DAC
90

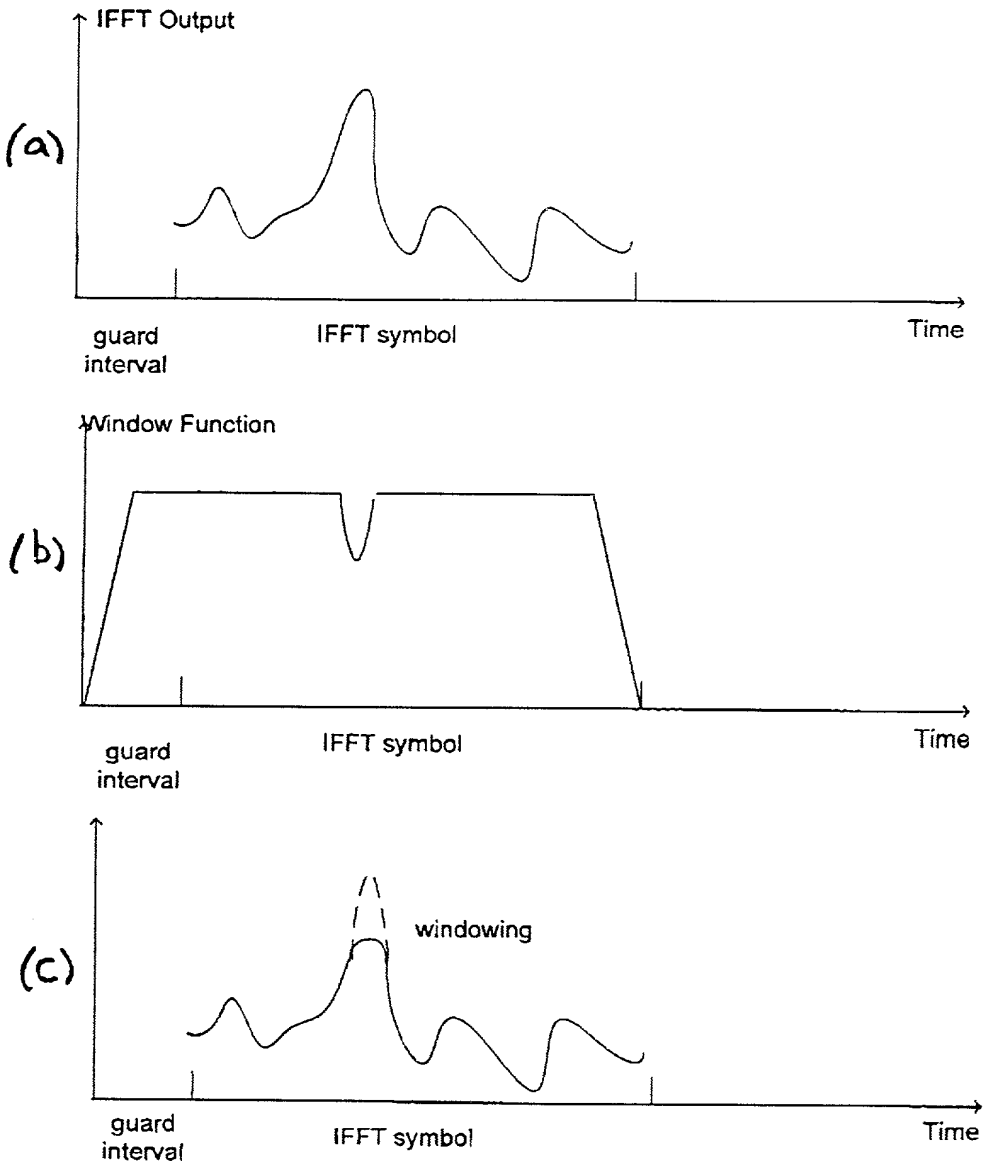
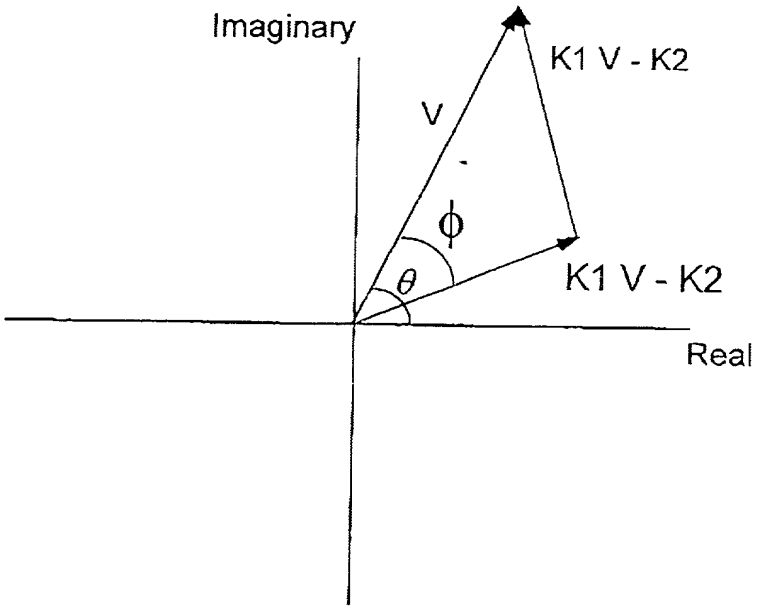
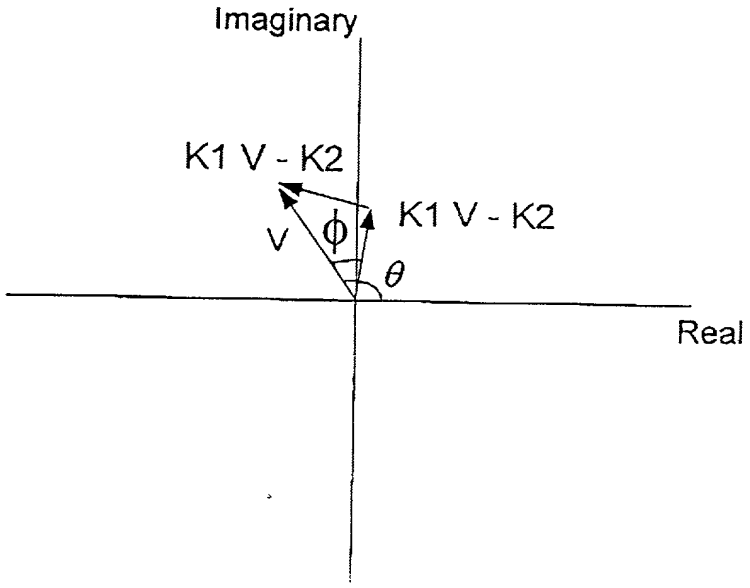

IFFT Output
(a)
guard interval
IFFT symbol
Time
Window Function
(b)
guard interval
IFFT symbol
Time
windowing
(c)
guard interval
IFFT symbol
Time

Figure 4



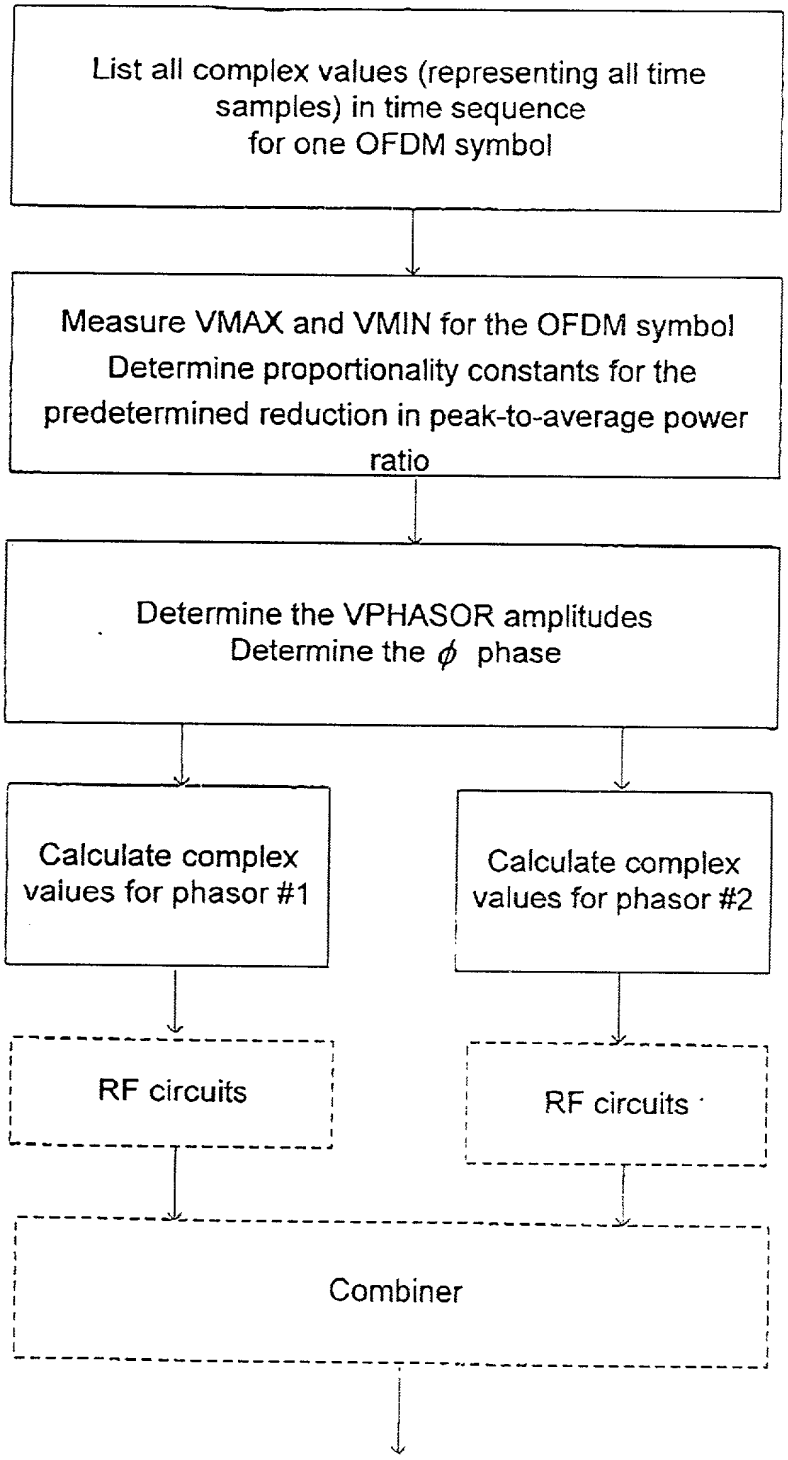
(a) Signal at Time 1

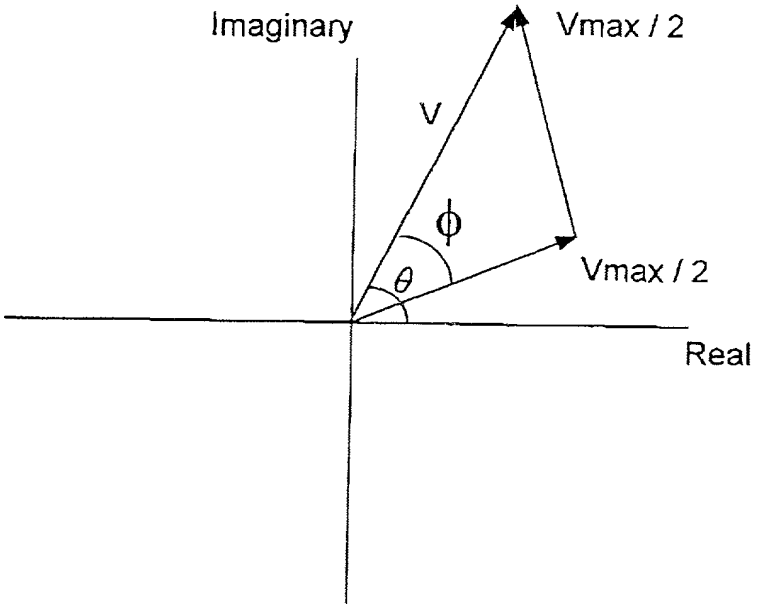


(b) Signal at Time 2

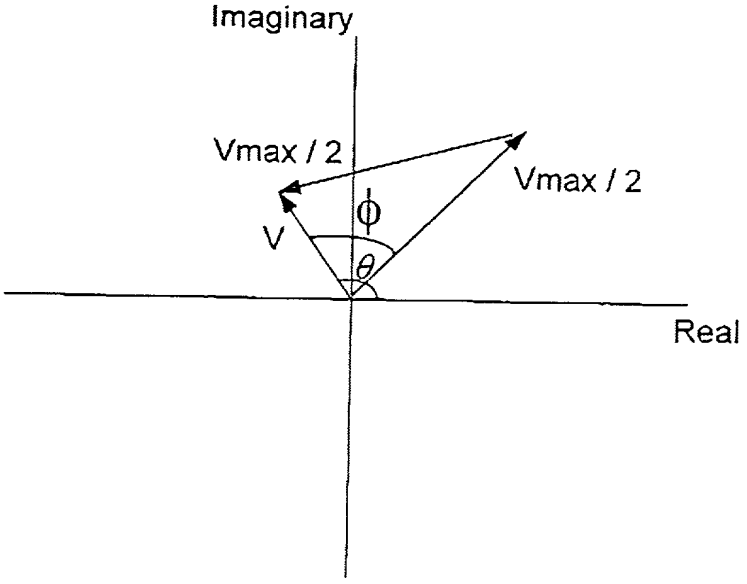
Figure 5

Figure 6


List all complex values (representing all time samples) in time sequence for one OFDM symbol
Measure VMAX and VMIN for the OFDM symbol
Determine proportionality constants for the predetermined reduction in peak-to-average power ratio
Determine the VPHASOR amplitudes
Determine the ϕ phase
Calculate complex values for phasor #1
Calculate complex values for phasor #2
RF circuits
RF circuits
Combiner

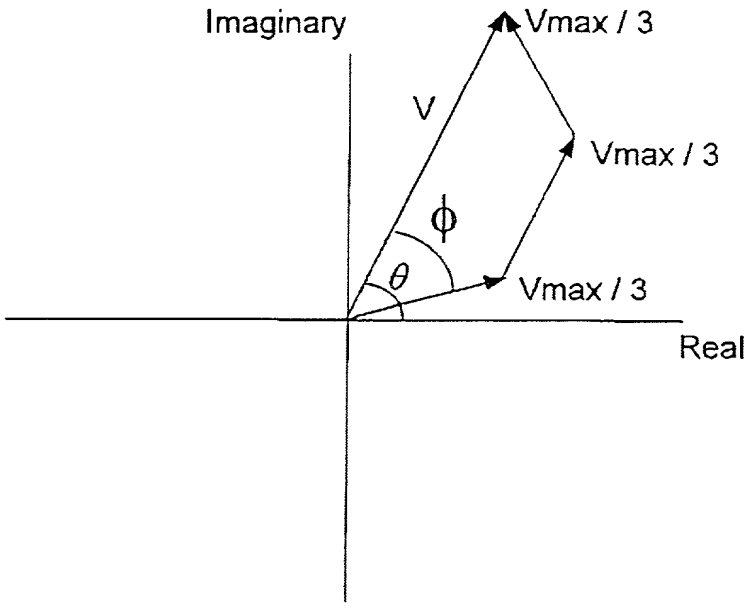


(a) Signal at Time 1

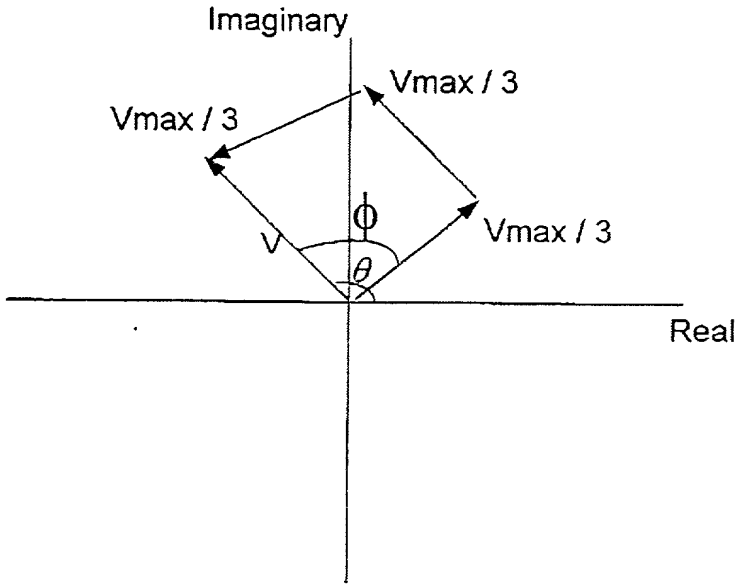


(b) Signal at Time 2

Figure 7



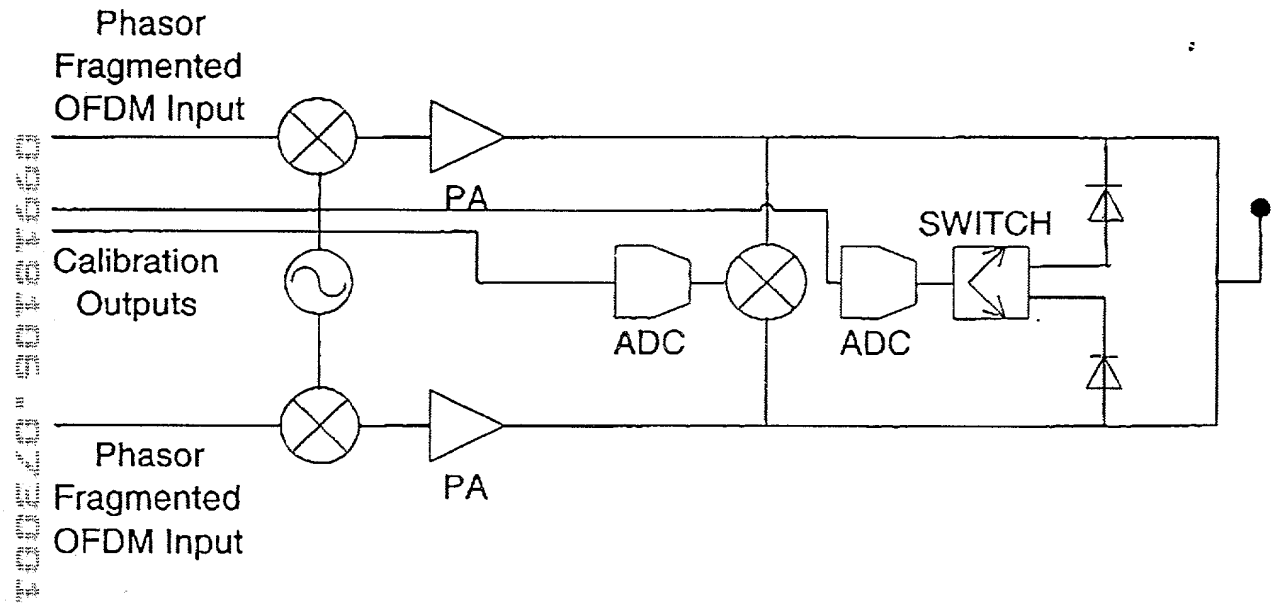
(a) Signal at Time 1



(b) Signal at Time 2

Figure 8

Figure 9


Phasor
Fragmented
OFDM Input
PA
SWITCH
Calibration
Outputs
ADC
ADC
Phasor
Fragmented
OFDM Input
PA

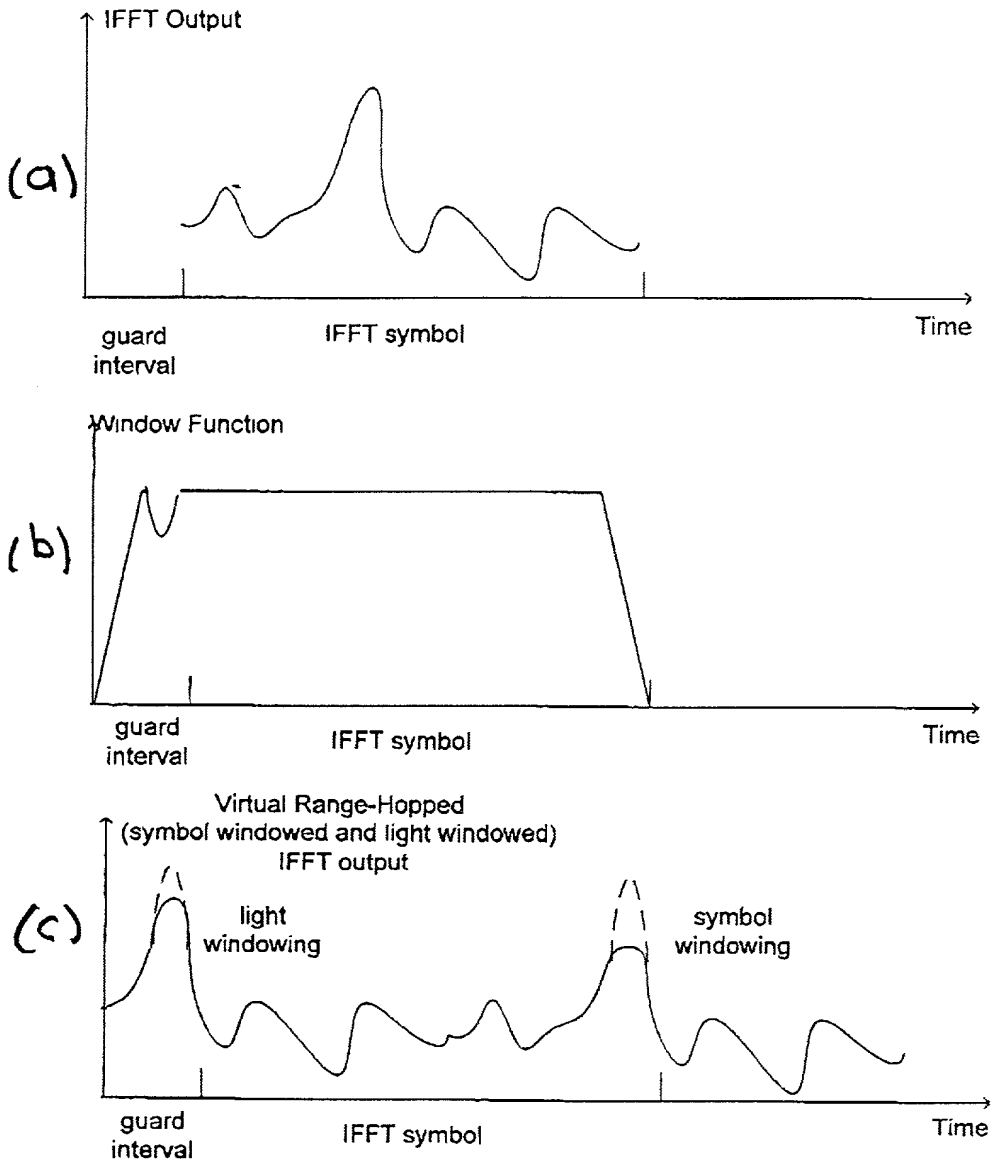

(a)
IFFT Output
guard interval
IFFT symbol
Time
(b)
Window Function
guard interval
IFFT symbol
Time
(c)
Virtual Range-Hopped
(symbol windowed and light windowed)
IFFT output
light windowing
symbol windowing
guard interval
IFFT symbol
Time

Figure 10

PAGE 20 SUPPLIED

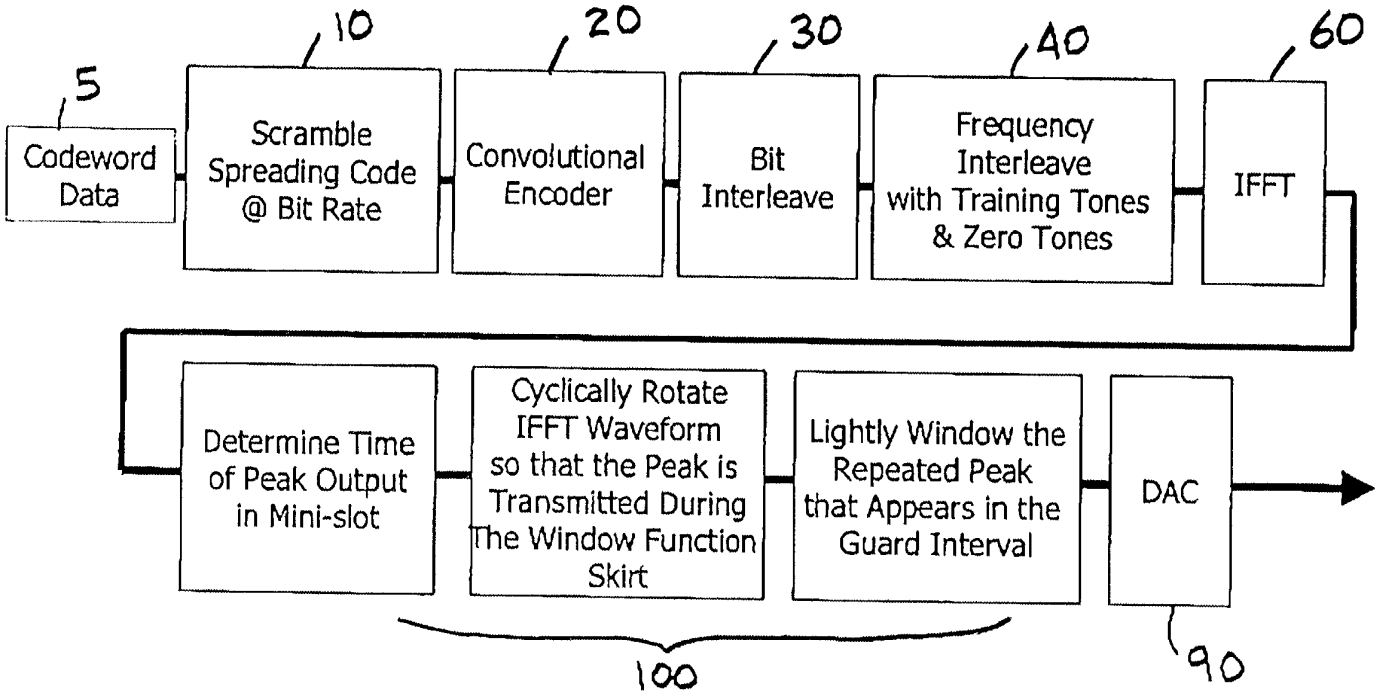


Figure 11

TOTAL P.46